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For: *COATING SUBSTRATES BY POLYMERIZING MACROMERS HAVING FREE RADICAL-POLYMERIZABLE SUBSTITUENTS*

Commissioner for Patents
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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including twenty (20) pages of Form PTO-1449. All of the documents cited below were cited by or submitted to the Patent Office in Application Serial No. 09/694,836, filed October 23, 2000, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

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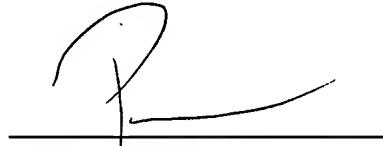
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Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst
Reg. No. 31,284

Dated: June 25, 2003

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Sheet	1	of	20	Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
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		PCT	WO 91/10425		Brown University Research Foundation	07-25-1991		
		PCT	WO 93/09176		Clover Consolidated, Limited	05-13-1993		
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation of 09/694,836
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		Attorney Docket Number	UTSB 493 CIP CON (5)

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		DUPUY, et al., "In Situ Polymerization of a Microencapsulating Medium Round Living Cells," <i>J. of Biomedical Materials Res.</i> 22:1061-70 (1988).	
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		EPAILLARD, et al., "Plasma Induced Polymerization," <i>J. Applied Polymer Sci.</i> 38:887-98 (1989).	
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		FUERTGES, et al., "The clinical efficacy of poly(ethylene glycol) modified proteins," <i>J. Controlled Release</i> 11:139-48 (1990).	
		FUKUI, et al., "Application of photo-crosslinkable resin to immobilization of an enzyme," <i>FEBS Letters</i> 68(2):179-82 (1976).	
		FUKUI, et al., "Applications of biocatalytic immobilized by prepolymer methods," <i>Adv. of Biochemical Eng. and Biotech.</i> 1201:1-33 (1984).	
		FUKUI, et al., "Entrapment of biocatalysts with photo-cross-linkable resin prepolymers and urethane resin prepolymers," <i>Methods in Enzymology</i> 135:230-53 (1987).	

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		FUKUI, et al., "Several novel methods for immobilization of enzymes microbial cells and organelles," <i>Biochimie</i> 62:381-86 (1980).
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		GHARAPATIAN, et al., "Encapsulation of viable cells within polyacrylate membranes," <i>Biotechnology and Bioengineering</i> 28:1595-1600 (1986).
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		GIBBLE, et al., "Fibrin glue: the perfect operative sealant?," <i>Transfusion</i> 30(8):741-47 (1990).
		GIN, et al., "Agarose encapsulation of islets of langerhans: Reduced toxicity <i>in vitro</i> ," <i>J. Microencapsulation</i> 4:239-42 (1987).
		GOLANDER, et al., "Preparation and protein adsorption properties of photopolymerized hydrophilic films containing N-vinylpyrrolidone (NVP), acrylic acid (AA) or ethyleneoxide (EO) units as studied by ESCA," <i>Colloids and Surfaces</i> 21:149-65 (1986).
		GOLDBERG, et al., "An evaluation of the gore-tex surgical membrane for the prevention of postoperative peritoneal adhesion," <i>Obstetrics and Gynecology</i> 70(6):846-48 (1987).
		GOMBOTZ, et al., "Immobilization of poly(ethylene oxide) on poly(ethylene terephthalate) using a plasma polymerization process," <i>J. of Applied Polymer Science</i> 37:91-107 (1989).

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
Sheet 10 of 20	Examiner Name		
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		GOOSE, et al., "Optimization of microencapsulation parameters: Semipermeable microcapsules as a bioartificial pancreas," <i>Biotechnology and Bioengineering</i> 27:146-50 (1985).
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		HARRIS, "Laboratory synthesis of polyethylene glycol derivatives," <i>Micromol. Chem. Phys.</i> C25(3):325-73 (1985).
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		HUFFMAN, et al., "Effect of carboxyl end groups on hydrolysis of polyglycolic acid," <i>J. Polymer Science, Polymer Chemistry Edition</i> 23:1939-1951 (1985).	
		HUNT, et al., "Synthesis and evaluation of a prototypal artificial red cell," <i>Science</i> 6:1165-68 (1985).	
		HUNTER, et al., "Surface modification of polyurethane to promote long-term patency of peritoneal access devices," <i>Trans. Am. Soc. Artif. Intern. Organs</i> 29:250-54 (1983).	
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		IWATA, et al., "Evaluation of microencapsulated islets in agarose gel as bioartificial pancreas by studies of hormone secretion in culture and by xenotransplantation," <i>Diabetes</i> 38:224-25 (1989).	
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		KARU, "Yearly review - Effects of visible radiation on cultured cells," <i>Photochemistry and Photobiology</i> 52(6): 1089-98 (1990).	

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		KENLEY, et al., "Poly(lactide-co-glycolide) decomposition kinetics <i>in vivo</i> and <i>in vitro</i> ," <i>Macromolecules</i> 20:2398-2403 (1987).	
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		LAMBERTI, et al., "Microencapsulation of mammalian cells in polyacrylates," <i>Applied Biochemistry and Biotechnology</i> 10:101-05 (1984).
		LEACH, et al., "Reduction of postoperative adhesions in the rat uterine horn model with polyxamer 407," <i>Am. J. Obstet. Gynecol.</i> 162(5):1317-19 (1990).
		LEE, et al., "Protein-resistant surfaces prepared by PEO-containing block copolymer surfactants," <i>J. Biomedical Materials Research</i> 23:351-68 (1989).
		LIM, et al., "Microencapsulated islets as bioartificial endocrine pancreas," <i>Science</i> 210:908-10 (1980).
		LIN, et al., "Optically clear simultaneous interpenetrating polymer networks based on Poly(ethylene glycol) diacrylate and epoxy. I. Preparation and characterization," <i>J. Polymer Sci.</i> 30:1941-51 (1992).
		LIPATOYA, "Medical polymer adhesives," <i>Advances in Polym. Sci.</i> 79:85-92 (1986).
		MAECHLING-STSRASSER, et al., "Peadsorption of polymers on glass and silica to reduce fibrinogen adsorption," <i>J. of Biomedical Materials Research</i> 23:1385-93 (1989).
		MALLABONE, et al., "Microencapsulation of human diploid fibroblasts in cationic polyacrylates," <i>Dept. of Chem. Eng. and Applied Chem. and Centre for Biomaterials</i> (1989).
		MATSUDA, et al., "Photoinduced prevention of tissue adhesion," <i>ASAIO Trans.</i> 38:M154-M155 (1992).
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		McMAHON, et al., "Feasibility of cellular microencapsulation technology for evaluation of anti-human immunodeficiency virus drug <i>in vivo</i> ," <i>J. Nat. Cancer Inst.</i> 82(22):1761-65 (1990).
		MENZIES, et al., "The role of plasminogen activator in adhesion prevention," <i>Surgery Gynecology and Obstetrics</i> 172:362-66 (1991).
		MERRILL, et al., "Platelet-compatible hydrophilic segmented polyurethanes from polyethylene glycols and cyclohexane diisocyanate," <i>Trans. Am. Soc. Artif. Intern. Organs</i> 28:482-87 (1982).
		MILLER, et al., "Degradation rates of oral resorbable implants (Polylactates and Polyglycolates): Rate modification with changes in PLA/PGA copolymer ratios," <i>J. Biomed. Mater. Res.</i> 11:711-19 (1977).
		MIYAKE, et al., "Solution properties of synthetic polypeptides. XVIII: Helix-coil transition of poly-m2-(2-Hydroxyethyl)L-Glutamine," <i>Biopolymers</i> 13:1173-86 (1974).
		MIYAMA, et al., "Graft copolymerization of methoxypoly (ethylene Glycol) methacrylate onto polyacrylonitrile and evaluation of nonthrombogenicity of the copolymer," <i>Journal of Applied Polymer Science</i> 35:115-25 (1988).
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		NOJIRI, et al., "In Vivo protein adsorption onto polymers: A transmission electron microscopic study," <i>Trans. Am. Soc. Artif. Intern. Organs</i> 35:357-61 (1989).	
		O'SHEA, et al., "Encapsulation of rat Islets of langerhans prolongs xenograft survival in diabetic mice," <i>Diabetes</i> 35:943-46 (1986).	
		OKADA, et al., "Application of entrapped growing yeast cells to peptide secretion system," <i>Appl. Microbiol. Biotechnol.</i> 26:112-16 (1987).	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	Continuation of 09/694,836
(use as many sheets as necessary)		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet	16	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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		PITT, et al., "Aliphatic polyesters. I. The degradation of Poly-caprolactone) <i>in vivo</i> ," <i>J. Applied Polymer Science</i> 26:3779-87 (1981).	
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		Attorney Docket Number	UTSB 493 CIP CON (5)

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		URMAN, et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3):563-67 (1991).
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet	20	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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